

**Notice of Allowability**

Application No.

10/822,646

Applicant(s)

MENG-CHIU

Examiner

Art Unit

Joseph Waks

2834

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Application filed on April 13, 2004.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☒ The drawings filed on 13 April 2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

### **REASONS FOR ALLOWANCE**

1. The following is an examiner's statement of reasons for allowance:

Re claims 1-5, the feature of the second section having an internal thread having a spiral internal thread tooth with a first internal tooth bevel facing the first end and a second internal tooth bevel facing the second end, wherein the first internal tooth bevel have a larger distance between a peak and a bottom of the internal thread tooth than that of the second internal tooth bevel, the second internal tooth bevel having a first convexity abutting the first internal tooth bevel, and the cover member having an external thread formed around its external periphery for fitting the internal thread of the main body to enable the cover member to be threadedly mounted into the second section of the main body, in combination with the other limitations present, are neither disclosed nor taught by the prior art of record.

Re claims 6-10, the feature of the spiral internal thread tooth having a first internal tooth bevel facing the first end and a second internal tooth bevel facing the second end, an imaginary extended plane of said first internal tooth bevel intersecting with an imaginary long axle running through a center of the main body for a gamma angle, an imaginary extended plane of the second bevel intersecting with the imaginary long axle of the cover member for a delta angle, wherein the gamma angle being smaller than the delta angle, the second internal tooth bevel having a first convexity abutting the first internal tooth bevel, and a cover member having an external thread formed around its external periphery for fitting the internal thread of the main body to enable the cover member to be threadedly mounted into the second section, in

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combination with the other limitations present, are neither disclosed nor taught by the prior art of record.

Re claims 11-15, the feature of the second section having an internal thread having a spiral internal thread tooth with a first internal tooth bevel facing the first end and a second internal tooth bevel facing the second end, wherein the first internal tooth bevel have a larger distance between a peak and a bottom of the internal thread tooth than that of the second internal tooth bevel, the second internal tooth bevel having a first concavity recessed toward the first tooth bevel, and the cover member having an external thread formed around its external periphery for fitting the internal thread of the main body to enable the cover member to be threadedly mounted into the second section of the main body, in combination with the other limitations present, are neither disclosed nor taught by the prior art of record.

Re claims 16 –20, The feature of the spiral internal thread tooth having a first internal tooth bevel facing the first end and a second internal tooth bevel facing the second end, an imaginary extended plane of the first internal tooth bevel intersecting with an imaginary long axle running through a center of the main body for a gamma angle, an imaginary extended plane of the second internal tooth bevel intersecting with the imaginary long axle of the cover member for a delta angle, the gamma angle being smaller than the delta angle, the second internal tooth bevel having a first concavity recessed therefrom towards the first internal tooth bevel, and a cover member having an external thread formed around its external periphery for fitting the internal thread of the main body to enable the cover member to be threadedly mounted into the second

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section, in combination with the other limitations present, are neither disclosed nor taught by the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Waks whose telephone number is (571) 272-2037. The examiner can normally be reached on Monday through Thursday 8 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren E. Schuberg can be reached on (571) 272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'JWaks', is positioned to the left of the printed name.

Joseph Waks  
Primary Examiner  
Art Unit 2834

3/4/05